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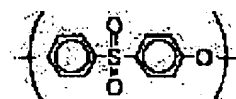
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(54) HIGH-MOLECULAR ELECTROLYTE, ITS PRODUCTION AND FUEL CELL MADE BY USING THE SAME

(57)Abstract:

PROBLEM TO BE SOLVED: To produce a low-cost high-molecular electrolyte which can be easily molded and processed because of solubility in an organic solvent and thermoplasticity, and is suitable for a high-performance fuel cell because of high water resistance and ease of control of its structure, and to provide a high-performance fuel cell made therefrom.

SOLUTION: This electrolyte comprises a sulfonated polyethersulfone having an equivalent weight of ion exchange groups of 800-5,000g/mol and obtained by sulfonating a polyethersulfone consisting of repeating structural units represented by the formula. The polyethersulfone is sulfonated by reacting it with a sulfonating agent in concentrated sulfuric acid, giving the sulfonated polyethersulfone. The fuel cell is made by using the electrolyte.



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